

SEQUENCE LISTING

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CHOI, YEON-OK

<120> The usage of MADS-box genes in fruit & seed development by
regulating active gibberelin synthesis

<130> 428.1074

<140> US/10/588,095
<141> 2006-07-28

<150> PCT/KR05/00282
<151> 2005-01-31

<150> KR10-2004-10432
<151> 2004-02-17

<150> KR10-2004-6551
<151> 2004-02-02

<160> 24

<170> KopatentIn 1.71

<210> 1
<211> 1065
<212> DNA
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<223> Malus domestica mRNA for C-type MADS-box protein (MdMADS14)

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actcaaagtc aagaactaac agaaagagcc acaattcatc tattttgagg ggtttttgcc 120
atttttcatc cttgtaacaa tggagttcgc aaatcaagca cctgagagct ctacccaaaa 180
aaaattggga agaggcaaaa ttgagattaa gcggtatgaa aacactacca atcgacaagt 240
caccttctgc aaacgcgcga acggattgct taagaaagcc tatgaattgt ctgtttcttg 300
tgatgctgaa gttgctctta tcgtcttctc cacccttggc cgctcttatg agtatgctaa 360
caacagcgtt agagcaacaa tcgacaggta caaaaaagca tgcgctgatt ctacggacgg 420
tggatctgta tcagaagcta acactcagtt ttatcagcag gaagcatcaa aactgcgaag 480

acagatccga gaaattcaga attcaaacag gcatatactg ggggaatccc ttagcacctt 540
 gaaagtcaag gaactgaaaa acctagaagg aagattggag aaaggaatca gcagaataag 600
 atccaaaaag aatgaaatcc tgtttttctga aatcgaattc atgcaaaaga gggagactga 660
 gctgcaacac cacaacaatt ttctgagagc aaagatagct gaaagcgaga gggaacagca 720
 gcagcagcaa acacatatga ttccgggaac ttctacgat ccgtcgatgc cttcgaattc 780
 gtatgacagg aactttcttc ctgtgatctt ggagtccaat aataaccatt accctcgcca 840
 aggccagaca gctctccaac ttgtttgaaa tgctggactg ccgtctgatg ttcttctatc 900
 catatctctt gatctgtctt cataaatcta tgagataatt gacgttgtag tttttatgta 960
 tatgggagaa ccagtttgct catgttctcc ataatatata tatgtgtgat gatggacccc 1020
 aattctgtga taacatatat agtaaatattt attttctcac cccga 1065

<210> 2
 <211> 876
 <212> DNA
 <213> Malus domestica

<220>
 <221> gene
 <222> (1)..(876)
 <223> Malus x domestica AGAMOUS-like protein mRNA, complete
 cds (MdMADS16)

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 agctaacaga gaaaaccaca attcatcaat ttggaggggt ttttgccatt tttcatcctt 120
 gcaacaatgg agttcccaaa tcaagcacc gagagctcct ccagaaaaa attgggaagg 180
 ggcaaaattg agattaagcg gatcgaaaac actacaaatc gacaagttac ctcttgcaaa 240
 cgccgcaacg gattgcttaa gaaagcctat gaattgtctg ttctttgtga tgetgaagtt 300
 gctcttatcg tgtttccaa ccgtggccgc ctctatgagt atgctaaca cagtgttaga 360
 gcaacaatcg acaggtacaa aaaagcatac gctgactcta cgaacagtgg atctgtttca 420
 gaagccaaca ctacgtttta tcagcaggaa gcatccaaac tgogaagaca gatccgagaa 480
 attcagaatt caaacaggca tatactgggt gaagctctta gctccttgaa cgccaaggaa 540
 ctgaagaacc tagaaggag attggagaaa ggaatcagca gaataagatc caaaaagaat 600
 gaaatgctgt tttctgaaat cgaattcatg caaaaaaggg agaccgagct gcaacaccac 660
 aacaattttc tgagagcaaa gatagctgaa aacgagaggg aagagcagca gcatacacac 720

atgatgccgg gaacttecta cgatcagtcg atgccttcgc attcttatga caggaacttc 780
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 <222> (1)..(20)
 <223> 6th, 12th, 15th nucleotide 'n' represent inosine

<400> 3
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<210> 4
 <211> 19
 <212> DNA
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 <222> (1)..(19)
 <223> 3th, 12th, 15th and 18th nucleotide 'n' represent inosine

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 tngcgatyt tnshnckna 19

<210> 5
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<220>
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<222> (1)..(20)
<223> 9th and 18th nucleotide 'n' represent inosine

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aaraargcnt aygarytntc 20

<210> 6
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ggctgcagga attcggcact aggcaatt 28

<210> 9
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<210> 12
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<210> 13
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<223> MdMADS16 reverse primer

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<210> 14
<211> 21

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> ACTIN forward primer

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 <210> 15
 <211> 21
 <212> DNA
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 <220>
 <223> ACTIN reverse primer

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 <210> 16
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 <212> DNA
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 <223> hybridization probe

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 gaaaacgaga gggaagagca gcagcataca cacatgatgc cgggaacttc ctacgatcag 120
 tcaatgcctt cgcattctta tgacaggaac ttctctccag cggatgatctt ggagtccaac 180
 aataaccatt accctcacca agtccagaca gctctccaac ttgtttgaaa tgctggactg 240
 ccgtctgat 249

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 <223> npt II forward primer

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gacggatcgt aggaagttcc c		
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